

UNITED STATES DEPARTMENT OF AGRICULTURE  
ANIMAL AND PLANT HEALTH INSPECTION SERVICE

1. REGISTRATION NO.  
31-R-0054

CUSTOMER NO.  
242

FORM APPROVED  
OMB NO. 0579-0036

**ANNUAL REPORT OF RESEARCH FACILITY**  
(TYPE OR PRINT)

NOV 22 2006

2. HEADQUARTERS RESEARCH FACILITY (Name and Address, as registered with USDA, include Zip Code)

COLLEGE OF WOOSTER, THE  
931 COLLEGE STREET  
WOOSTER, OH 44691

3. REPORTING FACILITY (List all locations where animals were housed or used in actual research, testing, teaching, or experimentation, or held for these purposes. Attach additional sheets if necessary.)

See Attached Listing

FACILITY LOCATIONS/sites

**REPORT OF ANIMALS USED BY OR UNDER CONTROL OF RESEARCH FACILITY** (Attach additional sheets if necessary or use APHIS FORM 7023A)

A. Animals Covered By The Animal Welfare Regulations	B. Number of animals being bred, conditioned, or held for use in teaching, testing, experiments, research, or surgery but not yet used for such purposes.	C. Number of animals upon which teaching, research, experiments, or tests were conducted involving no pain, distress, or use of pain-relieving drugs.	D. Number of animals upon which experiments, teaching, research, surgery, or tests were conducted involving accompanying pain or distress to the animals and for which appropriate anesthetic, analgesic, or tranquilizing drugs were used.	E. Number of animals upon which teaching, experiments, research, surgery or tests were conducted involving accompanying pain or distress to the animals and for which the use of appropriate anesthetic, analgesic, or tranquilizing drugs would have adversely affected the procedures, results, or interpretation of the teaching, research, experiments, surgery, or tests. (An explanation of the procedures producing pain or distress in these animals and the reasons such drugs were not used must be attached to this report)	F. TOTAL NO. OF ANIMALS (Cols. C + D + E)
4. Dogs					
5. Cats					
6. Guinea Pigs					
7. Hamsters					
8. Rabbits					
9. Non-Human Primates	0	5	0	0	5
10. Sheep					
11. Pigs					
12. Other Farm Animals					
13. Other Animals					
14. Nonregulated Animals					
Mice	69		103	9	112

**ASSURANCE STATEMENTS**

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

**CERTIFICATION BY HEADQUARTERS RESEARCH FACILITY OFFICIAL**  
(Chief Executive Officer or Legally Responsible Institutional official)

I certify that the above is true, correct, and complete (7 U.S.C. Section 2143)

SIGNATURE OF C.E.O. OR INSTITUTIONAL OFFICIAL

(b)(6), (b)(7)c

DATE SIGNED

11/20/06

PART 1 - HEADQUARTERS

FORM APPROVED  
OMB NO. 0579-0036

COLLEGE OF WOOSTER, THE  
931 COLLEGE STREET  
WOOSTER, OH 44691

NOV 22 2006

## ASSURANCE STATEMENTS

- 1) Professionally acceptable standards governing the care, treatment, and use of animals, including appropriate use of anesthetic, analgesic, and tranquilizing drugs, prior to, during, and following actual research, teaching, testing, surgery, or experimentation were followed by this research facility.
- 2) Each principal investigator has considered alternatives to painful procedures.
- 3) This facility is adhering to the standards and regulations under the Act, and it has required that exceptions to the standards and regulations be specified and explained by the principal investigator and approved by the Institutional Animal Care and Use Committee (IACUC). **A summary of all the exceptions is attached to this annual report. In addition to identifying the IACUC-approved exceptions, this summary includes a brief explanation of the exceptions, as well as the species and number of animals affected.**
- 4) The attending veterinarian for this research facility has appropriate authority to ensure the provision of adequate veterinary care and to oversee the adequacy of other aspects of animal care and use.

## DATE SIGNED \_\_\_\_\_

(b)(6), (b)(7)c

11/20/04

## Column E Explanation

This form is intended as an aid to completing the Column E explanation. It is not an official form and its use is voluntary. Names, addresses, protocols, veterinary care programs, and the like, are not required as part of an explanation. A Column E explanation must be written so as to be understood by lay persons as well as scientists.

1. Registration Number: 31-R-0054 Biology Department

2. Number 9 of animals used in this study.

3. Species (common name) mouse of animals used in the study.

4. Explain the procedure producing pain and/or distress.

mice were given an injection of nicotine (~100µl) subcutaneously prior to behavioral testing.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

Anesthetic was not used in this procedure due to the fact that animals were tested behaviorally immediately following treatment. Stress was minimized by keeping handling time to a minimum.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency \_\_\_\_\_ CFR \_\_\_\_\_

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1. Registration Number: 31-R-0054 Biology Department

2. Number 18 of animals used in this study.

3. Species (common name) Zebra finch of animals used in the study.

4. Explain the procedure producing pain and/or distress.

Birds were held in the hand & a small blood sample was collected following puncture of the alar vein with a 26 Gauge needle. 3 Blood samples (~35  $\mu$ l each) were collected over a 1 hr period - 1 sample was collected immediately, 1 after 30 min, & 1 after 60 min. Between sampling periods, birds were held individually in soft cloth bags.

5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)

The procedure described above is a widely used procedure for assessing stress responsiveness in a variety of species (e.g., mammals, birds, reptiles). The procedures were used to study stress response & thus inducing a stressor was a necessary component of the study.

6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency \_\_\_\_\_ CFR \_\_\_\_\_

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1. Registration Number: 31-R-0054 Psychology Department
2. Number 90 of animals used in this study.
3. Species (common name) Mouse of animals used in the study.
4. Explain the procedure producing pain and/or distress.  
\* 5 combined  

① Contextual fear conditioning is a foot shock, classical conditioning procedure. The animal is placed into a novel environment & following tone presentation receives 2 - 2 second foot shocks at 0.75 mA. The point of the task is to determine what stimuli the animals pair with the aversive foot shock & we therefore, can not provide an anesthetic or analgesic. Evidence indicates hippocampal dependence on one aspect of this task & the six differences on that parameter are being explored.
5. Provide scientific justification why pain and/or distress could not be relieved. State methods or means used to determine that pain and/or distress relief would interfere with test results. (For Federally mandated testing, see Item 6 below)  

② Aggression testing involves the pairing of two mice in a territorial aggression situation for 10 minutes, 3 times. This could produce pain if an actual attack occurred, or simply distress. This task is an important experimental component because we are exploring the Y chromosome influence on this behavior. Again, this distress is part of the experimental question, but pain is avoided by stopping any attack that involves biting immediately.
6. What, if any, federal regulations require this procedure? Cite the agency, the code of Federal Regulations (CFR) title number and the specific section number (e.g., APHIS, 9 CFR 113.102):

Agency N/A CFR